

Gencore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2002, 21:47:54 ; Search time 755.06 Seconds
(without alignments)

27.251 Million cell updates/sec

Title: US-09-851-670-2
Perfect score: 24
Sequence: 1 cgacaatggaaaaacagctcgcc 24

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched:

930621 seqs, 428662619 residues

Minimum DB seq length: 0

Maximum DB seq length: 0

Post-processing: Maximum Match 0%

Listing first 45 summaries

Database : N_Geneseq_1101:*

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22: /SIDS2/gcdata/geneseq/geneseq/geneseq/NA2001.DAT:*

12 13.8 57.5 22 22 AAS06892
13 13.8 57.5 32 21 AAC21597
14 13.8 57.5 32 21 AA81312
15 13.8 57.5 32 21 AAC254567
16 13.8 57.5 32 21 AAC254747
17 13.8 57.5 47 21 AAC266252
18 13.6 56.7 31 22 AA131069
19 13.6 55.8 30 19 AAV35409
20 13.4 55.8 31 9 AAN80770
21 13.4 55.8 31 10 AAN92231
22 13.4 55.8 31 19 AAV57874
23 13.4 55.8 36 16 AAQ82965
24 13.4 55.8 36 16 AQQ98693
25 13.4 55.8 37 16 AQQ98693
26 13.4 55.8 47 21 AA265958
27 13.2 55.0 21 19 AAV57381
28 13.2 55.0 29 19 AAV28948
29 13.2 55.0 31 14 AAV39025
30 13.2 55.0 44 21 AAK37491
31 13.2 55.0 44 21 AAK395727
32 13.4 54.2 27 18 AAV61708
33 13.4 54.2 28 18 AAT94674
34 13.4 54.2 28 20 AAK209746
35 13.4 54.2 29 22 AAK747794
36 13.4 54.2 35 21 AAK295727
37 13.4 54.2 41 19 AAV50904
38 13.4 54.2 45 18 AAT96563
39 13.4 54.2 45 21 AAK95533
40 13.4 54.2 47 21 AAC68529
41 12.8 53.3 21 19 AAK74805
42 12.8 53.3 22 22 AAF60111
43 12.8 53.3 29 21 AAK04618
44 12.8 53.3 32 17 AAV45063
45 12.8 53.3 32 19 AAV45063

ALIGNMENTS

RESULT 1 AAC92017/C AAC92017/ TD AAC92017/ C AAC92017/ AC AAC92017/ DT DT 21-MAR-2001 (first entry)

DE PCR primer OJL103.

XX Heterologous gene expression; transposase: MOS1; mariner-like transposon; PCR primer; ss.

KW FRAP 3, fragment p

OS Drosophila mauritiana.

XX WO200073510-A1.

XX 07-DEC-2000.

XX 01-JUN-2000; 2000WO-US40091.

XX PR 01-JUN-1999; 99US-0136972.

XX PA (UTAH) UNIV UTAH RES FOUND.

XX PT Bessereau J, Jorgensen E;

XX DR WPI; 2001-080477/09.

XX PT Regulating expression of heterologous gene in *Caenorhabditis elegans* involves inserting transgene construct comprising heterologous gene, especially transposase gene into *C.elegans*

XX PT AAC67914

XX Human Factor VIII

XX TFIIXII oligo

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
C 1	15.2	63.3	25	22	AAC92017	PCR primer OJL103.
C 2	14.6	60.8	42	14	AQ038136	Mycobacterium 23S
C 3	14.6	60.8	58	16	AQ084428	Mycobacterium fort
C 4	14.2	59.2	19	21	AAB62033	Human HPC2 cDNA se
C 5	14.2	59.2	31	20	AQX06288	Human biallelic po
C 6	14.2	59.2	42	21	AQZ9133	B. subtilis HPS/RP
C 7	14.2	59.2	45	20	AQX8588	Human chromosome 1
C 8	14.2	59.2	53	22	AKH36592	Human colon cancer
C 9	14	58.3	30	21	AQX9037	Human Factor VIII
C 10	14	58.3	30	22	AAC67914	Human Factor VIII
C 11	14	58.3	30	22	AAC67925	Human TFIIXII oligo

XX
 CC The present invention relates to a method for regulating expression of a
 CC heterologous gene, into *Caenorhabditis elegans*, which involves inserting
 CC a transgene construct comprising a heterologous gene, preferably a
 CC transposase gene, into *C. elegans*. The transposon used in the method is
 CC preferably *Mos1*, a Mariner-like transposon isolated from *Drosophila*
 CC *mauritiana*. The present sequence is a PCR primer for *Mos1*, used in the
 XX method of the present invention.
 Sequence 25 BP; 2 A; 3 C; 8 G; 12 T; 0 other;
 SQ

RESULT 2

Query Match 63.3%; Score 15.2; DB 22; Length 25;
 Best Local Similarity 85.0%; Pred. No. 6.3e-02; Mismatches 3;
 Matches 17; Conservative 0; Indels 0; Gaps 0;
 Oy 4 caaatggaaaaacacgtcgc 23
 DB ||||| ||||| ||||| ||||| 4
 23 CAACGCAAAACACTCCG 4

AAQ38136 standard; DNA; 42 BP.
 XX
 AC AAQ38136;
 XX
 DT 01-JUL-1993 (first entry)
 XX
 DE Mycobacterium 23S rRNA primer/probe #29.
 XX
 KW Primer; probe; 16S; 23S; rRNA; Mycobacteria; subgeneric; class;
 KW rDNA; hybridisation; amplify; PCR; ss.
 OS Synthetic.
 XX
 XX
 PN WO304201-A.
 XX
 PD 04-MAR-1993.
 XX
 PR 13-AUG-1992; 92WO-US06821.
 XX
 PR 13-AUG-1991; 91US-0744282.
 XX
 PA (STAD) AMOCO CORP.
 XX
 PT Liu J, Nietupski RM, Shah JS;
 XX
 DR WPI; 1993-094025/11.
 XX
 PT Oligo-nucleotide(s) complementary to Mycobacterial ribosomal RNA.
 PT or DNA - used for detection and identification of Mycobacterial
 PT in hybridisation and amplification assays
 XX
 PS Claim 4: Page 18; 121pp; English.
 XX
 CC The sequences given in AAQ381108-46 are primer/probes which correspond
 CC to regions of the 16S and 23S rRNA of Mycobacterial sp. and members
 CC of subgeneric classes. These oligomers hybridise under assay
 CC conditions to rRNA/rDNA from >90% of common mycobacterium sp., these
 CC oligomers are substantially inclusive. The primer/probe sequences
 CC given in AAQ381150-59 hybridise to >10% of other bacterial sp., these are
 CC non-exclusive. All these oligomers can be used to detect *Mycobacterium*
 XX and their subgeneric classes by hybridisation or by amplification.
 Sequence 42 BP; 13 A; 14 C; 9 G; 6 T; 0 other;

Query Match 60.8%; Score 14.6; DB 16; Length 58;
 Best Local Similarity 81.0%; Pred. No. 1.3e+03; Mismatches 4;
 Matches 17; Conservative 0; Indels 0; Gaps 0;
 Oy 3 acaatggaaaaacacgtcgc 23
 DB ||||| ||||| ||||| ||||| ||||| 6
 26 AGACTGGAAAAACAGGTCCC 6

RESULT 4

AAQ8428/C standard; rRNA; 58 BP.
 AAQ8428 standard; rRNA; 58 BP.
 AC AAQ8428;
 XX
 DT 02-OCT-1995 (first entry)
 XX
 DE Mycobacterium fortuitum 23S rRNA variable region probe 50.
 XX
 PR 22-JUL-1994; 94WO-FR00929.
 XX
 PA (INR) BIO MERIEUX.
 XX
 PI Christen R, Mabilat C;
 XX
 DR WPI; 1995-075238/10.
 XX
 PT Single stranded nucleic acid fragments specific for particular
 PT Mycobacterium species - useful as probes and primers for
 PT detection, identification and amplification, also for therapy,
 derived from variable regions of 23S ribosomal RNA
 PT
 PS Claim 7; Page 69; 216pp; French.
 XX
 CC This sequence is from a variable region of 23S rRNA from
 CC Mycobacterium fortuitum. It is useful as a probe for species-
 CC specific identification of Mycobacteria, pref. in a sandwich assay.
 CC The variable regions were identified by comparison of the 23S rRNA
 CC from many Mycobacterial species; this sequence is from the region
 CC corresp. to nucleotides 289-290 in *E. coli* 23S rRNA.
 XX
 SQ Sequence 58 BP; 10 A; 9 C; 20 G; 19 U; 0 other;

Query Match 60.8%; Score 14.6; DB 16; Length 58;
 Best Local Similarity 81.0%; Pred. No. 1.3e+03; Mismatches 4;
 Matches 17; Conservative 0; Indels 0; Gaps 0;
 Oy 3 acaatggaaaaacacgtcgc 23
 DB ||||| ||||| ||||| ||||| ||||| 6
 26 AGACTGGAAAAACAGGTCCC 6

RESULT 4

AAQ60233 standard; DNA; 19 BP.
 ID AAA60233
 XX
 AC AAA60233;
 XX
 DT 07-DEC-2000 (first entry)
 XX
 DE Human HPC2 cDNA sequencing primer SEQ ID NO: 54.
 XX
 KW Human; mouse; prostate cancer predisposing gene; HPC2;
 KW human chromosome 17p; gene therapy; peptide therapy; drug design;
 KW PCR primer; sequencing primer; ss.

Query Match 60.8%; Score 14.6; DB 14; Length 42;
 Best Local Similarity 81.0%; Pred. No. 1.2e+03; Mismatches 4;
 Matches 17; Conservative 0; Indels 0; Gaps 0;
 Oy 3 acaatggaaaaacacgtcgc 23

XX	OS	Home sapiens.
XX	PN	WO200027864-A1.
XX	PD	18-MAY-2000.
XX	PF	05-NOV-1999; 99WO-US26055.
XX	PR	06-NOV-1998; 98US-0107468.
XX	PA	(MYRI-) MYRIAD GENETICS INC.
XX	PI	Tavtigian SV, Teng DHF, Simard J, Rommens JM; XX
XX	DR	WPI; 2000-376481/32.
XX	PT	Human prostate cancer (HPC)2 nucleic acids, polypeptides, and antibodies, useful for treatment and diagnosis of prostate cancer
XX	PR	Example 3; Page 56; 157pp; English.
XX	CC	The present sequence is a primer used in the isolation of the human and murine prostate cancer predisposing genes HPC2 and Mn.HPC2. The human version of the gene is found on chromosome 17p. Some alleles cause a predisposition to cancer, particularly prostate cancer. This gene and its protein can be used in peptide and gene therapy for cancer patients, as well as being useful as diagnostic tools (both for cancer sufferers and those with a predisposition to the disease) and in the production of cancer drugs.
XX	CC	Sequence 19 BP; 8 A; 5 C; 3 G; 3 T; 0 other;
XX	PS	Query Match 59.2%; Score 14.2; DB 21; Length 19; Best Local Similarity 84.2%; Pred. No. 1.7e+03; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX	QY	4 ccaatggaaaacagctg 22
XX	DB	1 caactggaaaataccctg 19
XX	RESULT 5	AAX06288
XX	ID	AAX06288 standard; DNA; 31 BP.
XX	XX	AC
XX	AC	AAX06288;
XX	DT	31-MAR-1999 (first entry)
XX	DE	Human biallelic polymorphic DNA fragment SGC30827.
XX	XX	KW
XX	KW	Polymorphism; biallelic; paternity testing; forensic; genetic mapping; phenotypic typing; medicament; disease; marker; human; ss.
XX	OS	Homo sapiens.
XX	PN	W09858529-A2.
XX	PD	30-DEC-1998.
XX	PR	22-JUN-1998; 98WO-US12930.
XX	PR	24-JUN-1997; 97US-0050594.
XX	PA	(AFFY-) AFFYMETRIX INC.
XX	PI	Berno A, Chee M, Fan J, Lipshutz RJ; XX
XX	DR	WPI; 1999-080963/07.
XX	PT	New nucleic acid segments containing polymorphic sites - used for, e.g. detecting a disease phenotype, in forensics, paternity testing
XX	CC	Sequences AAX06101-X06558 represent human DNA fragments which contain biallelic polymorphic markers. The base occupying the polymorphic site is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments can be used in a method for determining polymorphic forms in an individual. The invention further provides computer-readable storage medium for storing data for access by an application programme being executed on a data processing system. Such a method comprises a data structure stored in the computer-readable storage medium, the data structure including information resident in a database used by the application programme and including records, each record comprising information identifying a polymorphism shown in the above sequences. The products and methods can be used for analysing polymorphic sites in individuals for testing for the presence of a disease phenotype or in forensics, paternity testing or genetic mapping of phenotypic traits. They can also be used for the production of polypeptides expressed by variant genes and for the production of transgenic animals. The nucleic acid segments can also be used in the manufacture of medicaments for the treatment or prophylaxis of diseases.
XX	CC	Sequence 31 BP; 11 A; 5 C; 7 G; 7 T; 1 other;
XX	PS	Query Match 59.2%; Score 14.2; DB 20; Length 31; Best Local Similarity 76.2%; Pred. No. 1.8e+03; Matches 16; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
XX	QY	1 cggacaaatggaaaacagctc 21
XX	DB	1 ctacatagggataaasagctc 21
XX	RESULT 6	AAX299133
XX	ID	AAX299133 standard; DNA; 42 BP.
XX	XX	AC
XX	AC	AAX299133;
XX	DT	21-JUN-2000 (first entry)
XX	DE	B. subtilis HPS/HPI genes primer Bsyck-G1.
XX	XX	KW
XX	KW	Hexulose-phosphate synthase; HPS; hexulose phosphate isomerase; HPI; glucose 6-phosphate; methanol; PCR primer; ss.
XX	OS	Bacillus subtilis.
XX	PN	JP2000041683-A.
XX	XX	PD
XX	PD	15-FEB-2000.
XX	PR	04-AUG-1998; 98JP-0220881.
XX	PR	04-AUG-1998; 98JP-0220881.
XX	PA	(AJIN) AJINOMOTO KK.
XX	DR	WPI; 2000-274044/24.
XX	PT	Preparation of hexulose-phosphate synthase and hexulose-phosphate isomerase for preparation of 1-13C D-glucose 6-phosphate from C13-labeled methanol -
XX	PS	Examples; Page 10; 15pp; Japanese.
XX	CC	The invention relates to a novel DNA fragment containing the hexulose-phosphate synthase (HPS) and hexulose phosphate isomerase (HPI) coding sequences (AAX299133). This sequence represents a PCR primer used to isolate these genes. HPS or HPI are used for the preparation of C13-D-glucose 6-phosphate from C13-labelled methanol.

Query Match 59.2%; Score 14.2; DB 21; Length 42; Best Local Similarity 84.2%; Pred. No. 1.9e+03; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 aatggaaaaacagctgc 23
Db 12 aatggaaatcacgctgc 30

RESULT 7
AAX88588 standard; DNA; 45 BP.

XX AAX88588;
AC
XX DT 10-SEP-1999 (first entry)

XX Human chromosome 18q YAC clone nucleotide sequence.

XX Human chromosome 18q mood disorder; polymorphic marker; detection; identification; trinucleotide repeat; expansion; schizophrenia; anxiety disorder; adjustment disorder; personality disorder; nucleotide triplet repeat; ss.

XX Homo sapiens.
OS Synthetic.
XX WO9932643-A2.
XX PR 01-JUL-1999.
XX PD 17-DEC-1998; 98WO-EP08543.
XX 18-DEC-1997; 97GB-0026804.
XX (VLAAM-) VLAAMS INTERUNIVERSITAIR INST BIOTECNOG.
XX Del-Favero J, Raeymaekers P, van Broeckhoven C;
XX DR WPI; 1999-418934/35.

XX PT Detecting nucleotide triplet repeats in human chromosome 18q
XX PS Disclosure; Page 41; 87pp; English.

XX The present invention describes detecting nucleotide triplet repeats in a region of human chromosome 18q disposed between polymorphic markers D18S68 and D18S99 to identify a human gene associated with a mood disorder or related disorder. AAX88542 to AAX88705 represents human chromosome 18q YAC clones and primers corresponding to them, used in the exemplification of the present invention. YAC clones comprising a portion of the region of human chromosome 18q between markers D18S68 and D18S99 are used to identify at least one human gene associated with a mood disorder or related disorder. The mood disorder or related disorder, is chosen from the diagnostic and statistical Manual of Mental Disorders, version 4 (DSM-IV) taxonomy. This includes mood disorders (295.XX, 300, 311, 301, 13, 295.70), schizophrenia and related disorders (295, 297.1, 298.9, 297.3, 298.9), anxiety disorders (300.XX, 309.81, 308.3), adjustment disorders (309.XX) and personality disorders (codes 301.XX). Probes derived from genes associated with the mood disorder or related disorder can be used to detect pathological mutations or genetic variations in patients. The methods, probes and antibodies can be used to determine the susceptibility of an individual to a mood disorder or related disorder. The nucleic acids and proteins of the human gene can be used to treat mood disorders and related CC disorders.

XX Sequence 42 BP; 14 A; 7 C; 9 G; 12 T; 0 other;

Query Match 59.2%; Score 14.2; DB 22; Length 45; Best Local Similarity 84.2%; Pred. No. 1.9e+03; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 gacaatggaaaaacagct 20
Db 6 gtcaaatgcaaaatcagct 24

RESULT 8
AAR16592/c
ID AAR16592 standard; cDNA; 53 BP.

XX AC
XX DT 03-SEP-2001 (first entry)

XX Human colon cancer antigen encoding cDNA SEQ ID NO:3674.

XX KW Human; colon cancer; colon cancer antigen; diagnosis; detection; colorectal carcinoma; ss.

XX OS Homo sapiens.
XX WO200122920-A2.
XX PD 05-APR-2001.
XX PF 28-SEP-2000; 2000WO-US26524.
XX PR 29-SEP-1999; 99US-0157137.
XX PR 03-NOV-1999; 99US-0163280.
XX PA (HUMA-) HUMAN GENOME SCI INC.
XX PI Ruben SM, Barash SC, Birse CE, Rosen CA;
XX DR WPI; 2001-235357/24.
XX DR P-PSDB; AAG77185.

XX PT Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers -
XX PS Claim 1; Page 5520-5521; 9803pp; English.

XX CC AAH32943 to AAH37195 and AAG7354 to AAG7788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytostatic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patient's own production of P. Additionally, N may be used to produce the colon cancer-associated Ps, by inserting the nucleic acids into a host cell and culturing the cell to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAH37204 and AAB37789 represent sequences used in the exemplification of the present invention. N.B. Pages 666 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for CC SEQ ID NO:1027 to 1052, 7921 and 7922.

XX Sequence 53 BP; 5 A; 11 C; 9 G; 23 T; 5 other;

Query Match 59.2%; Score 14.2; DB 22; Length 53; Best Local Similarity 84.2%; Pred. No. 1.9e+03; Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

CC Sequence 45 BP; 14 A; 7 C; 11 G; 13 T; 0 other;

QY 6 aatggaaaaacacgtccccc 24
 ||| ||| ||| ||| ||| |||
 XX DE Human Factor VIII oligonucleotide FVIII ATG.
 ID AAA99037 standard; DNA; 30 BP.
 XX KW Human; FVIII; Factor VIII; gene therapy; Factor IX intron 1;
 AC AAA99037;
 XX KW Factor VIII production; PCR primer; ss.
 DT 17-JAN-2001 (first entry)
 XX DE Human Factor VIII PCR fragment oligonucleotide SEQ ID NO:1.
 XX KW Human; Factor VIII; FVIII; Factor IX truncated intron 1; FIX T1;
 KW B-domain; modification; gene therapy; PCR; haemostatic;
 KW haemophilia A; ss.
 XX OS Homo sapiens.
 XX DR EP1038959-A1.
 PN XX EP 03-MAR-2000; 2000EP-0104677.
 PD XX PR 29-APR-1999; 99EP-0107397.
 XX PA (CENT-) CENTENEON PHARMA GMBH.
 PT XX PI Negrier C, Plantier JE;
 XX DR XX WPI; 2001-072945/09.
 XX PT Modified Factor VIII cDNA comprising a truncated Factor IX intron 1
 PT sequence inserted at one or more locations, useful for efficient
 PT production of Factor VIII in host cells.
 XX PS Disclosure; Page 9; 19pp; English.
 XX CC The present sequence is used in an invention relating to a modified
 CC Factor VIII cDNA having a truncated Factor IX intron 1 inserted at one or
 CC more places. The cDNA encodes a mutated Factor VIII, where the wild type
 CC B domain has been deleted. The modified Factor VIII cDNA is used to
 CC generate Factor VIII protein in vitro. The cDNA is used in a transfer
 CC vector for gene therapy. The modification allows increased production of
 CC Factor VIII. Truncated Factor VIII cDNA with an insertion of the Factor
 CC IX intron 1 in intron 1 and 12 and in intron 1 and 13 gave 2-3 and 8-9
 CC times more Factor VIII than unmodified Factor VIII cDNA.
 XX SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;
 XX Query Match 58.3%; Score 14; DB 21; Length 30;
 CC Best Local Similarity 77.3%; Pred. No. 2.2e+03; Mismatches 5; Indels 0; Gaps 0;
 CC Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 CC are: (1) producing FVIII in a cell line containing (1); and
 CC (2) a transfer vector for use in gene therapy comprising (1). (1) has
 CC haemostatic activity, and can be used in gene therapy, (1) is used in
 CC a transfer vector for gene therapy and for a higher yield in vitro
 CC production of FVIII, which is used for treating haemophilia A.
 CC The present sequence represents a FVIII PCR fragment oligonucleotide which
 CC is used in the exemplification of the present invention.
 XX SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;
 XX Query Match 58.3%; Score 14; DB 21; Length 30;
 Best Local Similarity 77.3%; Pred. No. 2.2e+03; Mismatches 5; Indels 0; Gaps 0;
 Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 QY 3 acaaatggaaaaacacgtccccc 24
 ||| ||| ||| ||| ||| ||| |||
 Db 3 acccatggaaatagactcc 24
 RESULT 11 AAC67925 standard; DNA; 30 BP.
 ID AAC67925
 XX AC AAC67925;
 XX DT 19-FEB-2001 (first entry)
 XX DE Human TFXIX1 oligonucleotide FVIII ATG.
 XX KW Human; FVIII; Factor VIII; gene therapy; truncated Factor IX intron 1;
 TFXIX1; PCR primer; ss.
 OS Homo sapiens.
 XX PN EP1048726-A2.
 XX OS Homo sapiens.
 XX PN EP1048726-A2.
 XX PD 02-NOV-2000.
 XX PR 03-MAR-2000; 2000EP-0104677.
 XX PR 29-APR-1999; 99EP-0107397.
 XX PR 29-APR-1999; 99EP-0107397.
 DT 19-FEB-2001 (first entry)

PA XX (CENT-) CENTEON PHARMA GMBH.
 PI XX Negrier C, Plantier JL;
 XX DR WPI; 2001-072945/09.
 XX PT Modified Factor VIII cDNA comprising a truncated Factor IX intron 1
 PT sequence inserted at one or more locations, useful for efficient
 PT production of Factor VIII in host cells -
 XX PS Disclosure; Page 12; 19pp; English.
 XX CC The present sequence was used for introducing truncated Factor IX intron 1
 CC into a Factor VIII cDNA sequence. The resulting cDNA encodes a mutated
 Factor VIII, where the wild type B domain has been deleted. The modified
 CC Factor VIII cDNA is used to generate Factor VIII protein in vitro. The
 CC cDNA is used in a transfer vector for gene therapy. The modification
 CC allows increased production of Factor VIII. Truncated Factor VIII cDNA
 CC with an insertion of the Factor IX intron 1 in intron 1 and 12 and in
 CC intron 1 and 13 gave 2-3 and 8-9 times more Factor VIII than unmodified
 CC Factor VIII cDNA.
 XX
 SQ Sequence 30 BP; 9 A; 11 C; 5 G; 5 T; 0 other;

for novel human protein kinases where a single nucleotide polymorphism (SNP) has been identified. The sequences are described relating to the present sequence. The sequences are described relating to the invention of novel human protein kinases #1-57 (AAU03501-AAU03557). The novel protein kinases have been identified as members of the tyrosine or serine/threonine kinase (PK and SKT) families. The polynucleotides encoding protein kinases and the polypeptides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate kinase expression. For example, they may be used to treat cancers (especially cancers of haematopoietic origin), cardiovascular disease (e.g. atherosclerosis), metabolic disorders (e.g. diabetes), immune related diseases (e.g. rheumatoid arthritis), neurodegenerative disorders (e.g. schizophrenia), neurodegenerative disorders (e.g. Parkinson's disease), inflammatory disorders (e.g. asthma), infectious disease (e.g. HIV) and reproductive disorders (e.g. infertility). Additionally, polynucleotides encoding protein kinases may be used for gene therapy and as DNA probes in diagnostic assays. The protein kinase polypeptides may be used as antigens in the production of antibodies against the protein kinases and in assays to identify modulators of protein kinase expression and activity.

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Query Match      58.3%; Score 14; DB 22; Length 30;
Best Local Similarity 77.3%; Pred. No. 2.2e+03; Mismatches 0;
Matches 17; Conservative 0; Indels 0; Gaps 0;
QY  3 acaaatggaaaaaacccgtcc 24
   ||||| ||||| ||||| ||||| ||||| 24
Db  3 accatgtggaaatagagctcc 24

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```

QY 8 tgaaaaacagctcgcc 24
      Query Match 57.5%; Score 13.8; DB 22; Length 22;
      Best Local Similarity 88.2%; Pred. No. 2.6e+03;
      Matches 15; Conservative 0; Mismatches 2;
      Indels 0; Gaps 0;

```

RESOLt 12
AAS06892

XX

YY 261

DP 12-SEP-2001 (first entry)

DE SNP containing protein kinase DNA sequence #61

Human: protein kinase C: PKC: STELLA: 2002!

metabolic disorder; immune related disease; neurological disorder;

RW reproductive disorder; gene therapy; single nucleotide polymorphism

OS HOMO sapiens.

PN W0200138503-A3

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YOUNG & RUBICAM INC.

PI B18WHM B, Whyte B, Manning G, Sudarsanam S, Martinez R;

XX

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nutrient actus encoding human kinase polypeptides, useful for preventing

neuronal-associated diseases, and microbial infections -

PS Example 8B: Page 334: 433BD: Eng[ish]

אלאן אוניברסיטאי 2006-1 1

CC The present invention describes the full length genome of
 CC *Neisseria meningitidis* B (NMB). The sequences in AAF21544 and AAF21607
 CC to AAF21613 represent fragments of the NMB genomic sequence, as the
 CC sequence was too long to go in a record on its own it was split into 8
 CC sequences which overlap each other at the beginning and end of each
 CC sequence by 49980 bp (i.e. the last 49980 bp of AAF21544 is repeated at
 CC the beginning of AAF21607, the last 49980 bp of AAF21607 are repeated at
 CC the beginning of AAF21608, and so on). AAF21545 to AAF2158 encode the
 CC *Neisseria* proteins given in AAB5550 to AAB5559, and AAF2159 to
 CC AAF21606 represent PCR primers which are used in the exemplification of
 CC the present invention. The NMB genome and fragments from it have
 CC antibacterial activity, and can be used in vaccines and gene therapy.
 CC *Neisseria* nucleic acids, proteins and/or antibodies which binds to a
 CC proteins can be used in compositions for treating or preventing infection
 CC due to *Neisseria* bacteria or as a diagnostic reagent for detecting the
 CC presence of *Neisseria* bacteria or of antibodies raised to *Neisseria*
 CC bacteria. Computers, computer memory, computer storage medium or computer
 CC databases can be used in a search to identify open reading frames (ORFs)
 CC or coding sequences within the NMB genome. The DNA sequences provide
 CC further opportunities to find antigenic or immunogenic proteins which are
 CC more effective in vaccines than the outer membrane proteins currently
 CC used.

XX Sequence 32 BP; 10 A; 9 C; 6 G; 7 T; 0 other;

Query Match 57.5%; Score 13:8; DB 21; Length 32;
 Best Local Similarity 88.2%; Pred. No. 2.7e+03; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 caaatgaaaaacagct 20
 ||| ||||| |||||
 Db 10 catatggaaacacagct 26

RESULT 14

AAA81312
 ID AAA81312 standard; DNA; 32 BP.

XX
 AC
 XX
 DT 04-DEC-2000 (first entry)

DE N. meningitidis ORF121 PCR primer SEQ ID NO:1058.
 XX
 KW Neisseria meningitidis; *Neisseria gonorrhoeae*; genome; immunogenic;
 KW antigen; vaccine; diagnosis; infection; antibacterial; identification;
 KW Meningococcus B; MenB; PCR primer; ss.

OS Neisseria meningitidis.

XX WO200022430-A2.
 XX
 PD 20-APR-2000.
 XX
 PP 08-OCT-1999; 99WO-US23573.
 XX
 PR 09-OCT-1998; 98US-0103794.
 PR 30-APR-1999; 99US-0132068.

XX
 PA (CIR) CHIRON CORP.
 XX
 PT Frazer CM, Hickey E, Peterson J, Tettelein H, Venter JC, Scarselli M, Scarlato V;
 PI Massignani V, Galeotti C, Mora M, Ratti G, Scarselli M, Scarlato V;
 PI Rappuoli R, Pizza M;
 XX
 DR WPI; 2000-318079/27.

XX The present invention describes methods of obtaining immunogenic
 CC proteins from *Neisseria* genomic DNA sequences. AAB81453 to AAB82114
 CC represent specifically claimed *Neisseria meningitidis* genomic DNA
 CC sequences; AAA81260 to AAA81303 and AAB25620 to AAB25663 represent
 CC *Neisseria* DNA sequences and their corresponding proteins; AAB81254 to
 CC AAB81259 and AAA81304 to AAA81321 represent PCR primers used in the
 CC isolation of *Neisseria meningitidis* DNA sequences; and AAA81322 to
 CC AAA81452 represent *Neisseria meningitidis* MenB polynucleotide ORF
 CC sequences, which are all used in the exemplification of the present
 CC invention. The nucleic acid sequences, protein sequences, and antibodies
 CC against them, can be used in the manufacture of a composition. The
 CC composition can be used as a medicament (or in the manufacture of a
 CC medicament) for treating, preventing or diagnosing infection due to
 CC *Neisseria* bacteria. For example, some of the identified proteins could
 CC be components of vaccines against *Neisseria* bacteria; against all serotypes;
 CC and/or against all pathogenic *Neisseriae*. Identification of sequences
 CC from the bacterium will also facilitate production of biological probes,
 CC particularly organism-specific probes. Attempts to make efficacious
 CC *Meningococcus* B vaccines have failed mainly due to antigen tolerance.
 CC Multivalent vaccines have also been tried but none have successfully
 CC overcome antigenic variability. The provision of further, complete
 CC sequences may provide an opportunity to identify secreted or surface
 CC exposed proteins that may be presumed targets for the immune system and
 CC which are not antigenically variable or at least more conserved than
 XX

Sequence 32 BP; 10 A; 9 C; 6 G; 7 T; 0 other;

Query Match 57.5%; Score 13:8; DB 21; Length 32;
 Best Local Similarity 88.2%; Pred. No. 2.7e+03; Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 caaatgaaaaacagct 20
 ||| ||||| |||||
 Db 10 catatggaaacacagct 26

RESULT 15

AA254567
 ID AA254567 standard; DNA; 32 BP.

XX
 AC
 XX
 DT AA254567;

21-MAR-2000 (first entry)
 DE Neisseria ORF PCR primer SEQ ID NO:3029.

XX
 KW Neisseria meningitidis; *Neisseria gonorrhoeae*; antigen; vaccine;
 KW antigenic; diagnosis; immunogenic; infection; meningitis; septicaemia;
 KW antibacterial; gene therapy; PCR primer; ss.

XX
 OS Synthetic.
 OS Neisseria sp.

XX WO957200-A2.
 XX
 PD 11-NOV-1999.

XX
 PP 30-APR-1999; 99WO-US09346.

XX
 PR 01-MAY-1998; 98US-0083758.

PR 31-JUL-1998; 98US-0094869.

PR 02-SEP-1998; 98US-0098994.

PR 03-SEP-1998; 98US-0099062.

PR 09-OCT-1998; 98US-0103749.

PR 09-OCT-1998; 98US-0103794.

PR 25-FEB-1999; 99US-0121528.

XX
 PA (CHIR) INST GENOMIC RES.

PS Example 1; Page 115; 1760pp; English.

XX
 PI Fraser C, Galeotti C, Grandi G, Hickey E, Massignani V, Mora M;
 PI Petersen J, Pizza M, Rappuoli R, Ratti G, Scalato E, Scarselli M;
 PI Tettelin H, Wenter JC;
 XX
 DR WPI, 2000-062150/05.

XX
 PT Novel Neisserial polypeptides predicted to be useful antigens for
 PT vaccines and diagnostics

PS Example 1; Page 70; 1453pp; English.

XX
 CC AA253015 to AA254536, AA254577 to AA254615, and AAY4253 to AAY75941
 CC represent novel *Neisseria meningitidis* and *N. gonorrhoeae* polynucleotides
 CC and polypeptides. AA254537 to AA254576 and AA254616 to AA25473 represent
 CC PCR primers used in the exemplification of the present invention. The
 CC polypeptides, the polynucleotides, antibodies and compositions of
 CC the invention can be used as vaccines, as diagnostic reagents, and as
 CC immunogenic compositions. The polypeptides can be used in the
 CC manufacture of medicaments for treating or preventing infection due to
 CC *Neisseria* bacteria (e.g., meningitis and septicemia), to detect the
 CC presence of *Neisseria* bacteria, or to raise antibodies. They may also
 CC be used to screen for agonists or antagonists, which may themselves
 CC have use as antibacterial agents. The polynucleotides of the invention
 CC may also be used in gene therapy protocols.
 XX
 SQ Sequence 32 BP; 10 A; 9 C; 6 G; 7 T; 0 other;

Query Match 57.5%; Score 13.8; DB 21; Length 32;
 best local similarity 88.2%; Pred No. 2.7e+03;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 4 caaatggaaaaaagct 20
 ||||||| |||||
 Db 10 catatggaaaaaagct 26

Search completed: March 9, 2002, 01:06:55
 Job time: 11941 sec